INDEX—AUTHORS

Abe, Shousaku, 688
Abraham, William M., S49
Abrams, William R., 1129
Abrouk, Fekri, 288
Adams, G. Kenneth, III, 562
Adkinson, N. Franklin, Jr., 562, 1196
Adler, Kenneth B., 1099
Adnot, Serge, 288
Adzick, N. Scott, 607
Agostoni, Piergiuseppe, 812
Aguado, Antonio Gil, 1379
Agusti, Alvar Gn., 1085
Ahn, Chai H., 10
Aizawa, Miki, 688
Albert, Richard K., 628
Alberts, W., Michael, 1375
Albin, Robert, J., 1281
Allen, E. A., 1311
Allen, Steven, J., 1320
Altose, Murray D., 1227
Amott, Thomas R., 761
Anderson, K., 840
Anderson, Ronald, 1027
Andreadis, Nicholas A., 952
Annesi, Isabella, 1214
Anthonisen, Nicholas R., 912
Antony, Veena B., 775
Arkinstall, William W., 316
Armour, Carol L., 185
Armstrong, Christopher, 78
Arraj, Sheila M., 87
Astry, Calvin L., 1015
Atkins, Margaret E., 316
Aubier, Michel, 274, 544
Austen, K. Frank, 333
Autio-Harmainen, Helena, 979
Bai, Tony R., 190
Baier, Horst J., 422
Baker, Susan L., 403
Balbi, Bruno, 885
Balk, Robert A., 412
Balmes, John R., 201
Barbado, Javier, 1379
Barbers, Richard G., 1271
Bardy, Jean-Didier, 1033
Barnes, Peter J., 176, S26
Barrett, Kim E., 1190
Barrio, Juan L., 422
Barry, Christopher L., 1255
Bartlett, Donald, Jr., 383
Bar-Yishay, Ephraim, 512, 954
Bascom, Rebecca, 1261
Bass, John B., Jr., 1379
Basset, Francoise, 236
Bates, David M., 1214
Battista, Renaldo N., 817
Baughman, Robert P., 597
Baydur, Ahmet, 165
Beardsmore, Caroline S., 954
Beasley, R., S57
Becklake, Margaret R., 817, 1234
Beijer, Lena, 83
Bélanger, Jacques, 692
Belcher, Nick G., 822
Belman, Michael J., 1062
Ben-Dov, Issachar, 512, 1307
Benveniste, Jacques, S2
Berdine, Gilbert G., 924
Berg, Richard A., 441, 1334
Berger, Elaine M., 957
Berry, David, 600
Berthon-Jones, M., 144
Bienenstock, John, 245, S5
Bieth, Joseph G., 860
Bigby, Barbara G., 512
Black, Judith L., 185
Black, W. A., 1311
Blank, Jacky, 1129
Bleecker, Eugene R., 360
Block, Ron, 549
Bollinger, Mary E., 562
Bonta, Ivan L., 549
Bosch, Jaume, 1085
Bosken, Carol H., 597
Boucher, R. C., 512
Bourque, Linda B., 209
Boushey, Homer A., 345, 512
Braciale, Thomas J., 245
Braciale, Vivian L., 245
Bradford, Timothy R., 1186
Bradley, T. D., 387
Bradsher, Robert W., 412
Brantly, M. L., 401
Braun, Norma M. T., 523
Brieland, Joan K., 1300
Britt, E. James, 360
Brochard, Laurent, 579
Brochard, Patrick, 579
Brody, Arnold R., 1345
Bromberg, Philip A., 1124
Brooks, Stuart M., 268
Brown, I. G., 387
Brown, James K., 719
Brubaker, Pamela G., 930
Bruderer, Jakob W., 148
Brun, Patrick, 236
Brun-Buisson, Christian, 114, 288
Brunette, Elisa N., 731
Bryan, A. Charles, 1363
Bukowskyj, Maria, 173
Bunn, Anthony E., 223
Burghard, Guy, 327
Burrows, Benjamin, 788, 794, 805
Butchers, Peter, 35
Butler, Gregory B., 1099
Butler, John, 463, 812
Bye, Peter T. P., 148
Camilli, Anthony E., 788, 794
Campbell, Edward J., 983, 1281
Cardiff, Robert, 761
Carre, Alain, 579
Carson, Gary J., 1214
Cartier, André, 1033
Carvalho, Angelina C. Q., 294
Casale, T. B., 456
Casolaro, M. A., 401, 539
Chae, Claudia U., 441, 1334
Chan, S. L., 1249
Chandler, Keith W., 1375
Chan-Yeung, Moira, 950
Chao, C. W., 1311
Chapman, K. R., 899
Charan, Nirmal B., 463
Chastre, Jean, 236
Chen, Victor, 312
Cherniack, Martin G., 201
Cherniack, Reuben M., 521, 696, 782
Chernick, V., 130
Chi, Emil Y., 937
Chmielewski, Richard, 426
Chretien, J., 763
Christiani, David C., 194
Christman, Brian W., 1267
Chung, Kian F., 345
Church, M. K., S57
Cihla, Herbert P., 1002
Clark, C. J., 891
Clark, Joan G., 52
Clark, Noreen M., 567
Clark, Tim J. H., 822
Clark, Virginia A., 209
Claypool, William D., 1358
Clayton, Marcia M., 651
Clemmons, David R., 622
Cloutier, Michelle M., 1329
Cockcroft, Donald W., 264
Coffey, Michael, 1316
Colton, Theodore, 1255
Connolly, Noreen L., 1281
Conrad, A. Kelly, 396
Contreras, M., 1049
Coppin, Catherine, 705
Corey, E. J., 333
Cormier, Yvon, 692
Corriveau, Michael L., 118
Cosio, Manuel G., 338, 372
Cosulich, Elizabetta, 885
Coulson, Anne H., 209
Coumaros, Dimitri, 327
Coursin, Douglas B., 1002
Craig, Shirley S., 1186
Crapo, Robert O., 634, 1214
Crispen, Ray G., 3
Cropp, Alan, 1056
Cross, Carroll E., 761
Crouch, Ed C., 1118
Cruz, Edgardo, 1214
Cruz, Ruben, 201
Crystal, R. G., 401, 448, 539
Cullen, Mark R., 201
Cunningham, David A., 1080
Curran, Yann, 544
Curtis, Jeffrey L., 87
Cuss, Francis M. C., 176
Daghfous, Jalloul, 274
Dal Nogare, Anthony R., 671
Dales, Robert E., 817
Daniel, E. E., 1039
Daniel, Thomas M., 1137
Daniele, Ronald P., 201, 682, 1340
Dantzker, David, 1320
Daubenspeck, J. Andrew, 1229
Dauber, James H., 153, 1358

Davidson, Allan B., 333
Davies, Paul, 607
Davis, James A., 1080
Debanne, Sara M., 1137
de Beer, Magda, 1234
Deblois, G., 1186
Deboeck, Christine, 130
Debs, Robert J., 731
Deffebach, Mark E., 463
Defouilloy, Christian, 288
de Jongste, Johan C., 549
Denburg, Judah, S5
De Nucci, G., S39
de Palmas, Jeanine, 579
Derenne, Jean-Philippe, 274
de Rosie, J., 1049
DeSanctis, G. T., 338
Desjardins, Jocelyne, 1033
de Troyer, André, 367
De Vuyst, Paul, 493
Dewar, Ann, 35
Dimarco, Anthony F., 1056
Dinarello, Charles A., 66
Dixon, Caroline M. S., 176
Doble, Elizabeth A., 383
Dohn, Michael N., 597
Dolan, Gerald F., 118
Dolata, Jan, 1093
Dolovich, Jerry, 1033, S5
Dorr-Uyemura, Laura, 1062
Drazen, Jeffrey M., 333, 831, 840
Dressler, William E., 241
Drislane, Frank W., 498
Duane, G. B., 864
Duann, Shyun, 209
Ducoloné, Alain, 327
Dumortier, Pascal, 493
Dunn, Marc M., 1294
Dunn, Thaddeus L., 696
D'Urzo, A. D., 392
Eckstein, Elizabeth, 426
Edelman, Norman H., 378
Effros, Richard M., 864, 1080
Eggleston, Peyton A., 1043
Eigen, Howard, 1075
Eiriksson, Charles E., Jr., 322
Eisen, Ellen A., 194
Eldridge, Mungen A., 157
Elias, Jack A., 57, 62, 682
Eliasson, Orn, 573
Elkaday, Tarek, 600
Elliott, C. Gregory, 634
Ellis, Elizabeth R., 148
Ellner, Jerrold J., 426, 1214
Enarson, D. A., 1311
Ernst, Peter, S5
Ernst, Pierre, 817
Esparza, Carlos, 78
Esposito, Anthony L., 676
Estenne, Marc, 367, 493, 976
Evans, David, 567
Evans, John N., 1099
Evans, Timothy W., 345
Fagon, Jean Yves, 236
Fairshter, Ronald D., 741
Fantone, Joseph C., 930, 1300
Farnand, Bernard, 502
Farnum, Cornelia, E., 137
Fauci, Anthony S., 767
Faulks, C., 899
Featherstone, R., S57
Fedullo, Anthony J., 502
Feeley, Thomas W., 665
Feldman, Charles H., 567
Feldman, H. A., 840
Feldman, Joseph G., 783
Felletti, Raffaella, 885
Ferrans, Victor J., 448
Ferro, Thomas J., 682, 1340
Ferson, Peter F., 153
Fick, Robert B., Jr., 1204
Fine, Jonathan M., 826, 854
Fish, James E., S42
Fitzgerald, Muiris X., 1316
Fletcher, Eugene C., 525
Fletcher, Joyce G., 525
Flick, Michael R., 643
Fox, Charity, 1196
Fox, Leslie E., 137
Foxman, Betsy, 1214
Frank, Marcella M., 378
Frankel, Harry M., 300
Franzblau, Alfred, 1214
Frederiksz, Andre P., 549
Freeland, Howard S., 1196, S42
Freundlich, Bruce, 62
Friedman, Marc M., 1157
Friedman, Mitchell, 622
Friend, Daniel S., 731
Froese, Alison B., 1363
Fujiwara, Hiroshi, 1214
Fuller, Richard W., 176
Fumagalli, Roberto, 312
Gaffey, Michael J., 241
Galdston, Morton, 783
Gallagher, Jane E., 1345
Gandevia, S. C., 1214
Ganz, Tomas, 983
Garay, Stuart M., 504
Gardner, Reed M., 1214
Garshick, Eric M., 984, 1242
Gauldie, Jack, S5
Gee, Marlys, 952
Geggel, Robert L., 294
Geiseler, P. Jan, 3
Geiter, Lawrence J., 1007, 1214
George, Gerwyn, 1345
Ghezzo, Heberto, 1033
Gibert, Claude, 236
Giclas, Patricia C., 403
Gilbert, T. James, 924
Glasgow, James E., 1129
Glazier, A. John, 66, 72
Gleich, Gerald J., 848
Godfrey, Simon, 512, 954
Godleski, J., 840
Goldman, Allan L., 1375
Goldstein, R. S., 1049
Gong, Henry, Jr., 209, 1271
Gordon, Terry, 826, 854
Graham, Richard C., 426
Grassino, Alex, 372
Greaves, Ian A., 194
Green, Donald J., 1261
Greenberg, Joann, 52
Greene, Nelson B., 597
Greene, Reginald, 100
Grob, Jean-Claude, 327
Grum, Cyril M., 534
Grzybowski, S., 1311
Guenther, Susan M., 1320
Guerry-Force, Mary L., 705
Guilleminault, Christian, 372
Guyatt, Gordon H., 1069
Gwaltney, Jack M., 241
Hackett, Peter H., 896
Hakim, T. S., 338
Hall, Ferris M., 983
Hällgren, Roger, 639
Hamdaoui, Ahmed, 860
Hammond, S. Katharine, 1242
Hance, Allan J., 236
Hanley, James A., 817
Hansen, James E., 230
Haponik, Edward F., 360
Harcup, Craig, 422
Harf, Alain, 579
Hargreave, Frederick E., 264, 554, 1039
Harris, Gary D., 924
Harrison, Douglas, 316
Harrison, Ginette L., 896
Harrison, Michael R., 607
Harver, Andrew, 1229
Hasday, Jeffrey D., 534
Haslam, Patricia L., 26, 35
Hassell, Kathleen, 907
Hastie, Annette T., 512, 848
Hayden, Frederick G., 241
Hazucha, Milan J., 350
Heffner, John E., 482
Heifets, Leonid B., 418
Henderson, William R., Jr., 1176
Hendricks, C., 899
Henson, Peter M., 403
Hiatt, Peter W., 1075
Higgins, Ian T. T., 1214
Higgins, Michael L., 512
Hingley, Susan T., 512
Hirshman, Carol A., 345
Hlastala, Michael P., 628
Hodgkin, John E., 123
Hodson, W. Alan, 937
Hoeven, Corine, 585
Hoffman, Leslie A., 153
Hoffman, Robert M., 1358
Hoffstein, V., 387, 392, 1210
Hogg, James C., 705, S54
Holgate, Stephen T., 181, S57
Hollender, Louis, 327
Hopewell, Philip C., 504
Horsburgh, Charles R., Jr., 418
Horstman, Donald J., 350, 1124
Hoyer, Leon W., 294
Hu, Li-Ming, 607
Hudgel, David W., 899
Hudson, Leonard D., 307, 777
Huet, Yann, 114
Hughes, D. M., 891
Hugli, Tony E., S9
Huncharek, Michael, 983
Hunninghake, Gary W., 66, 72, 433, 747, 1204
Hurd, Suzanne S., 521
Hutton, I., 891
Ikegami, Machiko, 600
Ingram, Roland H., Jr., 333, 591, 831
Inselman, Laura S., 613
Ioffe, Semyon, 130

Irani, Anne-Marie A., 1186
Irwig, Les, 1234
Isaac-Renton, J. L., 1311
Iseman, Michael D., 418, 990
Israel, Robert H., 983
Israel-Biet, D., 763
Iwamota, Pam, 433
Jackson, J. Craig, 937
Jacobs, Michael R., 426
Jacobs, Richard F., 412
Javaheri, Shahrokh, 597
Jensen, Robert L., 634
Jimenez, Sergio A., 62
Jobe, Alan, 600
Johanson, W. G., Jr., 924
Johnson, Peter R. A., 185
Jones, Cary A., 719
Jones, J. Gareth, 665
Jones, Mary B., 997
Jordana, Manel, S5
Joris, Marc, 312
Jouin, Herve, 327
Juniper, E. F., 1039
Junod, Alain, S32
Kagey-Sobotka, Anne, 1043
Kalica, Anthony R., 268
Kaliner, Michael A., 456, 1157, 1165
Kallay, Michael C., 983
Kallenberg, C. G. M., 767
Kaltenborn, Walter T., 805
Kaltreider, H. Benfer, 87
Kamoun, Malek, 682, 1340
Kamp, David W., 1294
Karam, George H., 1015
Kariya, S. T., 840
Katyal, Sikandar L., 1358
Katzenstein, Anna-Luise A., 880
Kauffman, Francine, 1214
Kawakami, Yoshikazu, 688
Kay, A. B., 1200, S63
Kay, H. David, 659
Kehrl, Howard R., 350, 1124
Keller, Jana L., 1069
Kelly, S. M., 338
Kelly, Stephen J., S42
Kennedy, John D., 983
Kennedy, Susan M., 194
Kent, Barbara, 643
Kerby, Gerald R., 738
Kern, Jeffrey A., 201, 682
Kerr, Janet S., 300, 441, 1334
Kerrebijn, Karel F., 549
Ketelbant, P., 976
Kielkowski, Danuta, 1234
Kim, Chong S., 157
King, Charles H., 426
King, M., 338
King, Richard J., 997
King, Talmadge E., 403, 696
Kirby, John G., 264, 554
Kirk, Wayne, 628
Kleinhenz, Mary Ellen, 1214
Kline, P. A., 1039
Knowles, M. R., 512
Knudson, Dwyn E., 805
Knudson, Ronald J., 788, 794, 805
Knuth, Susan L., 383
Kolobow, Theodor, 312
Kominsky, John R., 201
Kowalsky, Richard J., 1124
Kozakewich, Harry, 498
Kramer, Michael J., 441
Kuehl, Thomas J., 997
Kueppers, Friedrich, 512, 848
Kulle, Thomas J., 1261
Kunikane, Hiroshi, 688
Kunkel, Robin G., 1300
Kwock, Lester, 622
Labrecque, John, 418
Laitinen, Annika, S67
Laitinen, Lauri A., S67
Lakshminarayan, S., 463
Landau, Susan, 1234
Lavilla, Paz, 1379
Laviolette, Michel, 692
Lawson, V. G., 392
Lazarus, Stephen C., S35
Leasa, David, 628
Leavitt, Randi Y., 767
Lebargy, Francois, 544
Lebowitz, Michael D., 788, 794
Lechner, Andrew J., 991
Lederman, Michael M., 426
Lee, Tak H., 333, 822, S14
Leff, Alan R., 1105
Lefferts, Peter L., 1267
Leiter, James C., 383
Lemaire, François, 114, 288
Lenfant, Claude J. M., 521
Lentine, Timothy, 1229
Lesser, Marvin, 643
Levin, Bruce, 567
Levin, Jack, 854
Levison, Moshe J., 567
Levytska, Vera, 783
Lewis, Michael I., 1062
Lewitter, Frances I., 217
Lhoste, François, 114
Lichtenstein, Lawrence, M., 562, 1043, 1196, S42
Light, Richard W., 107
Lim, Shun P., 597
Lim, T. K., 591
Lin, Jasmine M., 731
Lindberg, Sven, 1093
Lipscomb, Mary F., 941
Lisboa, Carmen, 1214
Lodato, Robert F., 1320
Loegering, David A., 848
Long, S., 1049
Longmore, William, 1118
Lorino, Hubert, 579
Louie, Samuel, 761
Lu, Pei-Lian, 194
Lucey, Edgar C., 676
Lukacher, Aron E., 245
Lundberg, Claes, S9
Lyle, Sarah K., 788, 794
Maat, Robert B., 512
MacGlashan, Donald W., Jr., 1196
Mack, Matthew, 1105
Macklem, Peter T., 190
Madison, J. Mark, 719
Mador, M. Jeffrey, 1320
Magnusson, Bjorn, 783
Mahler, Donald A., 1229
Mahutte, C. Kees, 107, 907
Malo, Jean-Luc, 1033
Marceau, François, S9
Marcy, Theodore W., 1276
Marino, John, 426
Marthan, Roger, 185
Martin, James G., 190
Martyn, J. B., 919
Mascheroni, Daniele, 312
Mason, Gregory R., 864, 1307
Mason, Robert J., 617
Mason, Ulysses G., III, 418
Mastai, Ricardo, 1085
Mayer, Linda S., 738
McCartney, William H., 1124
McCreary, Janice L., 1002
McDermott, Mark R., 245
McDonald, Ruth J., 957
McDonnell, Timothy, 1316
McFadden, E. Regis, Jr., 333
McGovern, Joan F., 1229
McGowan, Stephen E., 1286
McManus, Kevin, 201
McNicholas, Walter T., 1316
Meeker, Sonya, 562
Melioli, Giovanni, 885
Mellins, Robert B., 567
Mena, I., 864
Mercke, Ulf, 1093
Merrill, William W., 1276
Metcalfe, Dean D., 1190
Methlin, Gerard, 327
Metzger, W. James, 433
Meyer, Christian, 327
Meyers, Deborah, A., 360
Miles, Steven H., 512
Milic-Emili, Joseph, 274
Miller, Bess, 1
Miller, Joanna, 525
Milligan, Shawn A., 854
Mills, John, 504
Mills, William J., Jr., 896
Minty, Barbara D., 665
Misonou, Jun, 688
Moas, Carlos, 875
Modig, Jan, 639
Molotiu, N., 1049
Moncada, S., S39
Monick, Martha, 72, 433
Monos, Dimitri S., 1340
Mons, Harry, 549
Montgomery, A. Bruce, 731
Moreno, Rodrigo H., 919, 1214, S54
Moretti, Maria P., 312
Morgan, Douglas W., 1099
Morgan, W. K. C., 1214
Morris, Alan H., 634
Morrison, Wallace B., 137
Morton, J. J., 891
Moseley, Pope, 433
Moser, Stephen A., 17
Mota, Evangeline, 924
Moxley, Michael A., 1118
Mulder, N. H., 48
Muller, Nestor L., 705
Muñoz, Alvaro, 217, 1242
Munoz, Nilda M., 1105
Munster, Andrew M., 360
Murciano, Danièle, 274, 544
Murdock, Karen Y., 264
Murphy, David T., 10
Murphy, Robert C., S18
Murray, Joel J., 1286

Murray, John F., 504
Myers, Debra J., 512
Myers, Jeffrey L., 880
Myers, Thomas M., 952
Naclerio, Robert M., 1196, S42
Nadel, Jay A., 345, S1
Naegel, Gary P., 201
Nagai, Atsushi, 123
Nagase, Hideaki, 1334
Nagura, Hiroshi, 713
Nakatsu, Kanji, 173
Nakayama, Tsuguyo, 688
Neilly, J. B., 891
Nelson, Kenrad E., 3
Nelson, Steve, 1015
Neubauer, Judith A., 300, 378
Newhouse, Michael T., 1069
Newman-Taylor, Anthony, 35
Ng, T. P., 1249
Nicod, Laurent P., 941, 1353
O'Brien, Richard J., 1007, 1214
O'Byrne, Paul M., 554
O'Connor, George T., 800, 1255
O'Donnell, Denis E., 912
Oh, Mary S., 1214
Oishi, John, 1271
O'Kelly, F. J., 1249
Olenchock, Steven A., 194
Olson, Leslie G., 356
Olson, Neil C., 93
O'Neil, John J., 1124
Openbrier, Diana R., 153
Oppenheim, David M., 1129
O'Regan, Ronan, 1316
Oren, Ami, 230
Orlowski, Marian, 643
Osborne, Molly L., 345
Pääkkö, Paavo, 979
Pahulycz, Constant, 585
Palmer, Lucy, 201
Papahadjopoulos, Demetrios P., 731
Pardy, R. L., 919
Paré, Peter D., 705, 919, S54
Parienté, Rene, 274, 544
Parisi, Richard A., 378
Parker, Charles W., S22
Peck, S. H. S., 1311
Peeters, Clement, 585
Pelle, Gabriel, 579
Pennington, J., 840
Perez, Wilmer, 1320
Persson, Carl G. A., S71
Peset, R., 48
Peters, Stephen P., 1196, S42
Peters-Golden, Marc, 1020
Pettenazzo, Andrea, 600
Petty, Thomas L., 780
Phelps, David S., 1112
Phillips, Paul D., 57
Phillipson, E. A., 387, 1049
Pierce, Alan K., 671
Pietra, Giuseppe G., 1129
Pingleton, Susan K., 738
Pintado, Vicente, 1379
Pipkorn, Ulf, S42
Piquet, Jacques, 288
Pitchenik, Arthur E., 422, 875
Pitts, Clifford, 628
Poe, Robert H., 983
Popkin, J., 1049
Post, Martin, 989
Potkin, Ralph T., 307
Prato, Paola, 312
Pride, Neil B., 591
Prihoda, Thomas J., 924
Primett, Zoe S., 35
Primo, G., 976
Promisloff, Robert A., 1214
Proud, David, 1196, S42
Pugsley, Stewart O., 1069
Puig, Juan Ga., 1379
Quinn, Deborah A., 100
Quinn, Lisa A., 676
Rae, A. P., 891
Rafferty, Paul, 181, S57
Rankin, John A., 201, 1276
Rantala, Heikki, 979
Rapin, Maurice, 114
Ras, Gerhard J., 1027
Rasmussen, Julie K., 659
Rasmusson, Brad Y., 634
Ravazzoni, Cesare, 885
Rebuck, A. S., 392
Redline, Susan, 217
Rees, P. John, 822
Reid, Lynne M., 294, 607, 831
Repine, John E., 492, 957
Reynolds, Herbert Y., 250, 1276
Rich, R., 869
Richerson, Hal B., 433, 1204
Riley, David J., 300, 441, 1334
Risso, Angela, 885
Rivarola, Alejandro, 1214
Roach, Robert C., 896
Robbins, Richard A., 651, 659
Robert, Annie, 585
Roberts, R. S., 1039
Robertson, H. Thomas, 628, 812
Robin, Eugene D., 1152
Robinson, C., S57
Roca, Josep, 1085
Rodenstein, Daniel O., 585
Rodriguez-Roisin, Robert, 1085
Roger, L. Jack, 350
Rogers, Robert M., 1358
Rohrbach, Michael S., 396
Rosiello, Richard A., 1229
Rossi, Giovanni A., 448, 885
Rossman, Milton D., 57, 201, 682, 1340
Roston, Warren L., 1080
Rounds, Sharon, 725
Royston, David, 665
Rubin, Lewis J., 287
Rupert, Carol L., 300
Russ, Wesley D., 651, 659
Russo, Joseph, 403
Rutherford, R., 1049
Ryhänen, Lasse, 979
Rylander, Ragnar, 83
Sacco, Oliviero, 885
Sackner, Marvin A., 157
Saetta, M. P., 338
Sahn, Steven A., 482
Salata, Robert A., 426
Samuels, Martin A., 498
Samuelsson, Ted, 639
Sanderson, Mary, 628
Sandler, Malcolm, 223
Sandron, A. Venet, 763
Sanii, Reza, 912
Santiago, Teodoro V., 378
Sassoon, Catherine S. H., 107, 165, 907
Sauder, Larry R., 1261
Scanlon, Paul D., 333, 831
Schaaf, James W., 525
Schachter, E. Neil, 512
Schandené, Liliane, 493
Schenker, Marc B., 983, 1242
Schleimer, Robert P., 562, 1196, S42
Schoen, Frederick J., 498
Schoene, Robert B., 812, 896
Schraffordt Koops, H., 48
Schwab, J. H., 512
Schwartz, Lawrence B., 1186
Schwarz, Marvin I., 696
Scudder, Catherine M., 665
Seidenfeld, John J., 924
Seidner, Steven, 600
Segal, Mark, 1242
Séguin, Pierre, 1033
Seltzer, Janet, 831
Senior, Robert M., 1281
Sertl, K., 456
Seta, Jean-Phillipe, 544
Shellito, Judd, 78
Shepard, John W., Jr., 118
Sheppard, Dean, 826, 854
Shimokata, Kaoru, 713
Shin, Myung S., 880
Shiner, R. J., 338
Shioya, Takanobu, 1105
Shlaes, David M., 426
Shore, S. A., 840
Short, H. Denise, 1069
Showell, H. J., 557
Shulman, David L., 954
Silvestri, Lia, 372
Simmons, Michael, 209
Simmons, Richard S., 924
Singh, Gurmukh, 1358
Sitrin, Robert G., 930
Sjoerdsma, Kathleen, 433
Skornik, W., 840
Skrastins, R., 1049
Slater, Jay E., 1165
Sleijfer, D. Th., 48
Sluiter, H. J., 48
Slutsky, A. S., 392, 1210
Smith, Barry T., 989
Smith, Dorsett D., 812
Smith, Jan D., 924
Smith, John, 1075
Smith, Linda M., 1112
Smith, Philip L., 360
Smith, Thomas J., 1242
Snapper, James R., 1267
Snider, Dixie E., Jr., 1, 1007, 1379
Snider, Gordon L., 504, 676
Soler, Paul, 236
Solomon, David A., 1375
Solway, Julian, 333, 1105
Sommerhoff, Christian P., 345
Sorrentino, James V., 241
Souhrada, J. F., 557
Souhrada, Magdalena, 557
Southwick, Karen, 418
Sparrow, David, 1255
Spear, Brett, T., 1340

Speizer, Frank E., 217, 800, 983, 1225, 1242
Spencer, Hyacinth, 613
Spivey, Gary H., 209
Stănescu, Dan C., 585
Stanford, Ray E., 696
Stead, Ron, S5
Steele, Lorraine C., 10
Stephens, Newman L., 960
Stevenson, R. D., 891
Stewart, John H., 316
Stewart, Roger I., 223
Stiles, Clare M., 165
Stover, Diane E., 504
Stradling, J., 274
Straubinger, Robert M., 731
Strauss, H. William, 100
Strife, Robert J., S18
Stril, J. L., 338
Strohl, Kingman P., 356
Strunk, Robert C., 498
Stutts, M. J., 512
Sue, Darryl Y., 230
Sugahara, Kazuhiro, 617
Sullivan, Colin E., 144, 148
Summer, Warren R., 1015
Swinburne, Andrew J., 502
Szapiel, Susan, 448
Szarek, John L., 1099
Taeusch, H. William, 1112
Tager, Ira B., 217, 800
Tajima, Yasutaka, 688
Tashkin, Donald P., 209, 1271
Taylor, D. Wayne, 1069
Taylor, Joseph C., 767
Te, Teresita T., 107
Teh, E. Chuan, 937
Teisseire, Bernard, 114
Teng, Nelson N. H., 665
Tepper, Robert S., 1075
Tervaeri, J. W. Cohen, 767
Thebert, Paulette, 1020
Theron, Annette J., 1027
Thomas, P. D., 747
Thompson, James E., 826, 854
Thurlbeck, William M., 123
Tishler, Peter V., 217
Tobin, Martin J., 1320
Toews, Galen B., 671, 941, 1353
Togias, Alkis G., 1196
Tomioka, Moto, S5
Tom-Moy, May, 719
Toossi, Zahra, 426
Torrance, Daniel J., 230
Touaty, Elie, 274
Townsend, Marie, 1069
Tozzi, Carol A., 300
Travis, James, 773
Trobaugh, Gene, 307
Trouillet, Jean Louis, 236
Truog, William E., 937
Tsin, T. S., 1249
Tsuneta, Yasuhiro, 688
Tuomanen, E., 869
Turner-Warwick, Margaret, 26, 35
Tweardy, David, 426
Tweddel, A., 891
Undem, Bradley J., 562
Vaccaro, Charle A., 725
Valencia, Eulalia, 1379
Van Barneveld, P. W. C., 48
Van der Mark, Th. W., 48
Vandevenne, Andre, 327
Van Leemputten, Rene, 585
Vassal, I. P., 392
Vazquez, Juan J., 1379
Veal, Curtis F., Jr., 880
Vender, Robert L., 622
Venge, Per, 639
Verhest, Alain, 493
Veriter, Claude, 585
Vestal, Robert E., 322
Viires, Naima, 544
Vincent, Lawrence M., 1124
Vincken, Walter, 372
Voelkel, Norbert, F., S18
Voelker, Dennis R., 617
Wagner, Peter D., 1085
Wahl, Gary W., 502
Wakisaka, Akemi, 688
Waldron, James A., 696
Wallace, Jeanne M., 1271
Wallace, Richard H., Jr., 10
Wallis, Robert S., 1214
Wanner, Adam, S1
Wapnir, Raul A., 613
Wasilewski, Yvonne, 567
Wasserman, Karlman, 230, 1080
Wasserman, Stephen I., S46
Watters, Leslie C., 696
Weaver, L. Jean, 307
Webster, Ian, 1234
Wegman, David H., 194
Weinbaum, George, 1129
Weiss, Scott T., 800, 1225, 1255
Weissler, Jonathan C., 941, 1353
Welgus, Howard G., 1281
Wescott, S. L., 456
West, William W., 123
Wewers, M. D., 401, 539
Whipp, Brian J., 1080
White, Martha V., 1165
Widdicombe, John, 367
Wiggs, Barry, 705
Will, James A., 1002
Williams, James E., 17
Williams, Mary C., 744
Williamson, Dawn, 682
Wilsman, Norman J., 137
Wilson, Christopher B., 937
Winterbourn, Christine C., 767
Wise, Robert A., 360
Witek, Theodore J., Jr., 512
Woskie, Susan R., 1242
Wright, Joanne L., 705
Writer, Steven L., 322
Wund-Bisseret, Francoise, 860
Xie, H. J., 1311
Yamamoto, Masashi, 713
Ye, Ting-Ting, 194
Yernault, Jean-Claude, 493, 976
Younes, Magdy, 912
Yu, Shiu Y., 303, 441
Zak, O., 869
Zamel, N., 387
Zapol, Warren M., 100
Zavala, Donald C., 433, 1204
Ziza, J. M., 763
Zmijewski, Chester M., 1340
Zullo, Thomas G., 153
Zuwallack, Richard L., 573

Abdomen and rib cage motion, Konno-Mead analysis of, during successful and unsuccessful trials of weaning from mechanical ventilation, 1320
Acetazolamide versus almitrine as respiratory stimulants at high altitude, 896
Acid aerosol-induced bronchoconstriction, role of titratable acidity in, 826
Acoustic response measurements, airway area by, 392
Acquired immunodeficiency syndrome
  pulmonary complications of, update report of second workshop (NHLBI workshop summary), 504
  value of repeat fiberoptic bronchoscopies and significance of nondiagnostic bronchoscopic results in patients with, 418
Aerosol(s)
  delivery systems, metered-dose, evaluation of, using partial flow-volume curves (Note), 741
  histamine responsiveness, effect of platelet-activating factor on, in awake sheep, 1267
  hypotonic and isotonic, increase bronchial reactivity in Basenji-greyhound dogs, 345
  metered-dose inhaler, oropharyngeal deposition and delivery aspects of, 157
  methacholine, hyporesponsiveness to, in cigarette-smoking dogs, 338
Air flow
  limitation, chronic, bronchodilators in, 1069
  maximal, density dependence of, in asthmatics with exacerbation of their disease, 573
  obstruction
    and occupational exposures, strategies for elucidating relationship between (NHLBI workshop summary), 268
    spontaneous and acutely induced, effects of volume history during, in asthma, 591
Airway(s)
  area by acoustic response measurements and computerized tomography, 392
  asthmatic, terfenadine is potent and selective histamine H_1 receptor antagonist in, 181
  challenge, hypertonic, and exercise in bronchial asthma, comparison of refractory periods induced by, 822
  compression, dynamic, effect of, on breathing pattern and respiratory sensation in severe COPD, 912
  contractile responses, distribution of, within major diameter bronchi during exogenous bronchoconstriction, 1105
  disease
    obstructive
      comparison of clinical dyspnea rating and psychophysical measurements of respiratory sensation in, 1229
      small, comparison of bronchiolitis obliterans with, 705
  edema, effect of catalase on, in guinea pigs, 854
  function
    effects on, of bronchodilators in chronic air-flow limitation, 1069
    role of mast cell-derived mediators in, S35
  inflammation, implications for, and interactions between alveolar macrophages, monocytes, and granulocytes, S14
  injury, acute upper, in burn patients, 360
  inspiratory muscle activity as trigger causing, to open in obstructive sleep apnea, 372
  muscle, human, calcium channel agonist BAY K8644 enhances responsiveness of, to KCl and histamine but not to carbachol, 185
  nasal, response of, to exercise, 356
  obstruction
    early, density and frequency dependence of resistance in, 579
    upper, during sleep in normal subjects after selective topical oropharyngeal anesthesia, 1316
  occlusion pressure as indicator of successful weaning in patients with COPD, 107
  pressure
    continuous positive, central sleep apnea reversed by (Note), 1210
    high peak, severe impairment in lung function induced by, during mechanical ventilation, 312
  reactivity, prediction of, from responses to standardized respiratory symptom questionnaire, 817
  resistance
    effect of submucosal edema on, S54
    upper, changes in inspiratory muscle electrical activity and, during periodic breathing induced by hypoxia during sleep, 899
  responsiveness
    bronchoalveolar lavage does not alter, in asthmatic subjects, 554
    effects on, to inhaled and intravenously administered methacholine in dogs with SO_2-induced bronchitis, 840
    to methacholine during natural menstrual cycle and effect of oral contraceptives, 1039
    prediction of, to allergen from skin sensitivity to allergen and airway responsiveness to histamine (pulmonary perspective), 264
  smooth muscle
    cells, differential effects of N-formyl-methionyl-leucyl-phenylalanine and substance P on electrical and contractile properties of, 557
    responsiveness, modulation of, by respiratory epithelium in rabbit, 1099
    small, increased *in vitro* histamine responses in, from patients with COPD, 549
    (state of art), 960
  vascular beds, effects of inflammatory and other mediators on, S67
Alcohol and menstrual cycle, interaction between, and respiratory activity of genioglossus, 383
Allergen
  challenge, local and bronchoalveolar lavage of allergenic asthmatic lungs, 433
  -induced late responses, importance of lipoxygenase products of arachidonic acid in, S49
Almitrine versus acetazolamide as respiratory stimulants at high altitude, 896
Alpha-1-antitrypsin
  concentrations, evaluation of tamoxifen as therapy to augment, in Z homozygous alpha-1-antitrypsin-deficient subjects, 401
  levels and antineutrophil elastase capacity of blood and lung, comparison of, in patient with alpha-1-antitrypsin phenotype null-null before and during alpha-1-antitrypsin augmentation therapy, 539
Alpha-1-proteinase inhibitor inactivation, plasma antioxidant and protection against (correspondence), 767
Altitude, high, respiratory stimulants and sleep periodic breathing at: almitrine versus acetazolamide, 896
Aluminum dusts, sarcoid like lung granulomatosis induced by (case report), 493
Alveolar macrophage(s)
  and blood monocytes, carbohydrate differences in HLA-DR molecules synthesized by, 1340
  blood monocytes, and density-fractionated alveolar macrophages differ in their ability to promote lymphocyte proliferation to mitogen and antigen, 682
  cell population, rat, maintenance of, 78
  -derived neutrophil chemotactic activity, complement component C5 is required for release of, 659

function, pulmonary, during acute inflammatory lung injury, 1300
human, suppress interleuken-1 activity via secretion of prostaglandin E_2, 72
inhibition by methylprednisolone of zymosan-induced leukotriene synthesis in, 1020
membranes, sialic acid mediates initial binding of positively charged inorganic particles to, 1345
migration, rat, augmentation of, by surfactant protein (Note), 1358
modulation of effects of, on lung fibroblast collagen production rate, 52
monocyte, and granulocytes, interactions between, and implications for airway inflammation, S14
from patients with blastomycosis, growth inhibition of *Blastomyces dermatitidis* in, 412
production of platelet-activating factor, inhalation of endotoxin stimulates, 83
secrete inhibitor of metalloproteinase elastase, 1281
Alveolar type II
cells, what role do multivesicular bodies play in (pulmonary perspective), 744
epithelial cells, insulin, stimulates amino acid transport by, in primary culture, 617
Alveolitis
cryptogenic fibrosing, value of serial bronchoalveolar lavages in assessing clinical progress of patients with, 26
extrinsic allergenic, mast cells, atypical lymphocytes, and, neutrophils in bronchoalveolar lavage in, 35
Amino acid
sequence, partial, and characterization of low molecular weight surfactant protein, 1112
transport by alveolar type II epithelial cells, insulin stimulates, in primary culture, 617
Ammonia vapor, stimulation of C fibers by, triggers mucociliary defense reflex, 1093
Anesthesia, selective topical oropharyngeal, upper airway obstruction during sleep in normal subjects after, 1316
Angiotensin II formation, transpulmonary, in patients with chronic stable cor pulmonale, 891
Antibody(ies)
anticytoplasmic, in Wegener's granulomatosis (correspondence), 767
-forming cells, specific, mechanism of appearance of, in lungs of inbred mice after immunization with sheep erythrocytes, 87
human antiendotoxin monoclonal, effect of, on endotoxin-induced lung injury in rats, 665
Antigen
alveolar macrophages, blood monocytes, and density-fractionated alveolar macrophages differ in their ability to promote lymphocyte proliferation to, 682
HLA-DR, role of, in Japanese patients with sarcoidosis, 688
-induced contractile activity and release of inflammatory mediators, dexamethasone inhibits, in isolated guinea pig lung tissue, 562
Antioxidant activity of serum ceruloplasmin and transferrin available iron-binding capacity in smokers and nonsmokers, 783
Apnea
obstructive sleep
inspiratory muscle activity as trigger causing airways to open in, 372
time course of change in ventilator response to CO_2 with long-term CPAP therapy for, 144
central sleep, reversed by continuous positive airway pressure (Note), 1210
sleep
and chronic lung disease, long-term cardiopulmonary sequelae in patients with, 525
difference in pharyngeal properties between snorers with predominantly central sleep apnea and those without, 387
Arachidonic acid
inhibitory metabolite of, involvement of, in modulation of rabbit airway smooth muscle responsiveness by respiratory epithelium, 1099
lipoxygenase products of, importance of, in allergen-induced late responses, S49
Artery pressure, pulmonary, neutrophil-derived oxygen metabolites stimulate, in isolated perfused rat lungs (Note), 957
Asbestos
-related mesothelioma risk among railroad workers (correspondence), 983
workers, breathlessness in, evaluated by exercise testing, 812
Ascorbate, cysteine, and dapsone, regulation by, of increased extracellular and intracellular generation of reactive oxidants by activated phagocytes from cigarette smokers, 1027
Asthma
acute and chronic, inflammatory cells in, S63
adults with
bronchodilator effect of caffeine in, 173
once-daily sustained-release theophylline reduced diurnal variation in spirometry and symptomatology in, 316
allergenic lungs of patients with, local allergen challenge and bronchoalveolar lavage of, 433
bronchial, comparison of refractory periods induced by hypertonic airway challenge and exercise in, 822
effects of volume history during spontaneous and acutely induced air-flow obstruction in, 591
fatal, myocardial contraction band lesions in patients with (case report), 498
gastroesophageal reflux in patients with, 327
and histamine (Symposium), 1165
and human mast cells (Symposium), 1157
immediate reactions in, contribution of inflammatory mediators to, S57
and inflammatory mediator receptors, S26
occupational
evaluation of impairment/disability in patients with (pulmonary perspective), 950
and IgE sensitization in pharmaceutical company processing psyllium, 1033
patients with
allergic, bronchoalveolar lavage in (Symposium), 1204
bronchoalveolar lavage does not alter airway responsiveness in, 554
bronchoconstrictor effects of leukotriene E_4 in normal and, 333
differing response of, to sulfur dioxide exposure with continuous and intermittent exercise, 350
exacerbation of their, density dependence of maximal expiratory air flow in, 573
and healthy nonsmokers, acute response to 3.0 ppm formaldehyde during exercise, 1261
inhibition of SO_2-induced bronchoconstriction in, by cromolyn is dose dependent (correspondence), 512
provoked and mast cells (Symposium), 1200
terfenadine is potent and selective histamine H_1 receptor antagonist in patients with, 181
urban children with, impact of passive smoking on emergency room visits of, 567
Atropine methonitrate, treatment of experimental rhinovirus colds with intranasally administered, 241
Bacillary colonization, gram-negative, increased salivary elastase precedes, in postoperative patients, 671
Bacille Calmette-Guérin immunotherapy, pulmonary complications of intravesicular (case report), 763
Basophils, osmotic activation of, and human lung mast cells, comparison of, 1043
Beryllium disease, chronic, in precious metal refinery, 201
Blastomyces dermatitidis
conidia, chronic murine pulmonary blastomycosis induced by intratracheally inoculated, 17
growth inhibition of, in alveolar and peripheral macrophages from patients with blastomycosis, 412

Blastomycosis
chronic murine pulmonary, induced by intratracheally inoculated *Blastomyces dermatitidis* conidia, 17
growth inhibition of *Blastomyces dermatitidis* in alveolar and peripheral macrophages from patients with, 412
Bleomycin-induced pneumonitis, natural course of, 48
Blood gases, effects of administrtion of O_2 on, in patients with COPD during acute respiratory failure (correspondence), 274
Book Reviews
Acute lung injury. Herbert P. Wiedemann, Michael A. Matthay, Richard A. Matthay, eds., 986
The anaerobic threshold: physiological and clinical significance, L. Tavazzi, P. E. di Prampero, eds., 1381
Asbestos-related malignancy. Karen Antman, Joseph Aisner, eds., 986
Diagnostic methods in critical care: automatic data collection and interpretation. William C. Shoemaker, Edward Abraham, eds., 1380
Fundamental cardiovascular and pulmonary physiology. Jerry Franklin Green, 1380
Fungal diseases of the lung. George A. Sarosi, Scott F. Davies, eds., 275
Handbook of pulmonary emergencies. Samuel V. Spagnolo, Ann Medinger, eds., 1213
The hawk's nest incident. Martin Cherniack, 1213
Neurobiology of the control of breathing. Curt von Euler, Hugo Lagercrantz, eds., 1380
Penicillin—meeting the challenge. Gladys L. Hobby, 766
Pleural effusion. Adrian O. Vladutiu, 275
Principles of exercise testing and interpretation. Karlman Wasserman, James E. Hansen, Darryl Y. Sue, Brian J. Whipp, 1213
Pulmonary gas exchange. M. Meyer, J. Piiper, eds., 275
Respiratory care of the newborn—a clinical manual. Claire A. Aloan, 511
Respiratory intensive care. David Pierson, ed., 1380
Bradykinin-induced bronchoconstriction in humans, 176
Breathing
intermittent positive pressure, in diagnosis of emphysema, 123
pattern, effect of dynamic airway compression on, in severe COPD, 912
periodic, induced by hypoxia during sleep, changes in inspiratory muscle electrical activity and upper airway resistance during, 899
sleep periodic, and respiratory stimulants at high altitude, 896
Breathlessness, evaluation of, in asbestos workers by exercise testing, 812
Bronchial
circulation, a small but vital attribute of the lung (state of art), 463
responsiveness, nonspecific
effect of passive smoking on, in children and young adults, 800
relationship of, to occurrence of respiratory symptoms and decreased levels of pulmonary function, 1255
Bronchiolitis
obliterans, comparison of, with organizing pneumonia, interstitial pneumonia, and small airways disease, 705
post-transplant obliterative, physiologic aspect of, in human heart-lung transplantation (case report), 976
respiratory, causing interstitial lung disease, 880
Bronchitis
chronic, gastroesophageal reflux in patients with, 327
SO_2-induced, in dogs, 840
Bronchoalveolar lavage
in allergic asthmatics (Symposium), 1204
cells, differential examination of, in tobacco cigarette and marijuana smokers, 1271
cellular constituents, pretreatment, in idiopathic pulmonary fibrosis, 696
does not alter airway responsiveness in asthmatic subjects, 554
limitations of using urea to quantify epithelial lining fluid recovered by, 1276
and local allergen challenge of allergenic asthmatic lung, 433
mast cells, atypical lymphocytes, and neutrophils in, in extrinsic allergenic alveolitis, 35
rabbit, complement activity in, 403
serial, value of, in assessing clinical progress of patients with cryptogenic fibrosing alveolitis, 26
(state of art), 250
Bronchoconstriction
acid aerosol-induced, role of titratable acidity in, 826
bradykinin-induced, in humans, 176
exogenous, distribution of airway contractile responses within major diameter bronchi during, 1105
So_2-induced, inhibition of, in asthmatic subjects by cromolyn is dose dependent (correspondence), 512
Bronchoconstrictor effects of leukotriene E_4 in normal and asthmatic subjects, 333
Bronchodilator(s)
in chronic air-flow limitation, 1069
effect of caffeine in adult asthmatics, 173
Burn patients, acute upper airway injury in, 360
Caffeine, bronchodilator effect of, in adult asthmatics, 173
Calcium channel agonist BAY K8644 enhances responsiveness of human airway muscle to KCl and histamine but not to carbachol, 185
California hospital, Southern, drug-resistant tuberculosis, in, 1307
Cambodian refugee camp, follow-up on (correspondence), 512
Capillary injury in lung, proteolytic activity in sheep lung lymph as marker of, 643
Carbachol, calcium channel agonist BAY K8644 does not enhance responsiveness of human airway muscles to, 185
Carbohydrate differences in HLA-DR molecules synthesized by alveolar macrophages and blood monocytes, 1340
Carbon dioxide
breathing, maternal, effect of, on lung development of fetuses in rabbits, 130
diffusing capacity reference equations (correspondence), 1214
time course of change in ventilatory response to, with long-term CPAP therapy for obstructive sleep apnea, 144
Carbon monoxide diffusing capacity, single-breath, and reference equations derived from healthy nonsmoking population and effects of hematocrit, 805
Carcinoma, bronchogenic, pulmonary natural killer cell activity is reduced in patients with, 1353
Cats, airway responses to aerosolized methacholine in, 190
Catalase, apparent effect of, on airway edema in guinea pigs, 854
Cationic probes, binding of, to apical and basal surfaces of rat lung capillary endothelium and of endothelial cells in tissue culture, 725
Ceruloplasmin, serum, antioxidant activity of, and transferrin available iron-binding capacity in smokers and nonsmokers, 783
Chemotherapy, short-course, of pulmonary tuberculosis (correspondence), 1214
Chest medicine, iatroepidemics as probe to examine systematic preventable errors in (pulmonary perspective), 1152
Children
lying supine, healthy preschool, functional residual capacity in (Note), 954
urban, with asthma, impact of passive smoking on emergency room visits of, 567
and young adults, effect of passive smoking on pulmonary function and nonspecific bronchial responsiveness in, 800
Chloride secretion, probenecid affects, in canine tracheal epithelium, 1329
Cilia, microtubular protofilaments and subunits of outer dynein arm in, from dogs with primary ciliary dyskinesia, 137
Ciliary activity, mammalian, effect of purified human eosinophil major basic protein on, 848
Cirrhosis, liver, gas exchange and pulmonary vascular reactivity in patients with, 1085
Clindamycin, interactions of, with antibacterial defenses of lung, 1015

Collagen
degradation of, in lung tissue slices exposed to hyperoxia, 1334
production
rate, lung fibroblast, modulation of effects of alveolar macrophages on, 52
reduction of chronic hypoxic pulmonary hypertension in rat by inhibitor of, 300
Complement
activity in normal rabbit bronchoalveolar fluid, 403
component C5 is required for release of alveolar macrophage-derived neutrophil chemotactic activity, 659
fragments, effects of, on pulmonary vascular smooth muscle, S9
system, activation of, in ARDS, 651
Conference on interaction between inflammatory response and smooth muscle
chairman's introduction, S1
purpose of, S1
Cor pulmonale, chronic, transpulmonary angiotensin II formation in patients with, 891
CORRESPONDENCE
Anticytoplasmic antibody in Wegener's granulomatosis, 767
Asbestos-related mesothelioma risk among railroad workers, 983
Assessment of hemidiaphragmatic paralysis, 1214
D_{LCO} reference equations: a perspective, 1214
Effects of administration of O_2 on ventilation and blood gases in patients with COPD during acute respiratory failure, 274
Effects of occupation and smoking on respiratory disease mortality, 1214
Effect of rhamnolipid hemolysis of *Pseudomonas aeruginosa* on respiratory epithelium, 512
Follow-up on tuberculosis treatment in a Cambodian refugee camp, 512
Increased interleukin-1 production and monocyte suppressor cell activity associated with human tuberculosis, 1214
Inhibition of sulfur dioxide-induced bronchoconstriction in asthmatic subjects by cromolyn is dose dependent, 512
Methacholine availability for bronchial challenge testing, 512
On dust, disability, and death, 1214
Plasma antioxidants and protection against alpha-1-proteinase inhibitor inactivation, 767
Preventive therapy of emphysema—lessons from elastase model, 983
Short-course chemotherapy of pulmonary tuberculosis, 1214
Tuberculosis chemoprophylaxis in compromised host, 1379
Ultrasonography and thoracentesis, 983
Corynebacterium parvum, symptomatic treatment of recurrent malignant pleural effusions with intrapleurally administered, 885
Cotton
dust and endotoxin exposure-response relationships in cotton textile workers, 194
textile workers, cotton dust and endotoxin exposure-response relationships in, 194
Creatinine:uric acid ratio, urinary, nocturnal increase of, and sleep-associated hypoxemia, 534
Critical care medicine, credentialing, effect of, on pulmonary fellowship training (editorial), 777
Cromolyn, inhibition of SO_2-induced bronchoconstriction in asthmatic subjects by, is dose dependent (correspondence), 512
Culture
primary, insulin stimulates amino acid transport by alveolar type II epithelial cells in, 617
tissue, binding of cationic probes to apical and basal surfaces of rat lung capillary endothelium and of endothelial cells in, 725
Cyclic GMP, immunohistochemical localization of histamine-stimulated increases in, in guinea pig lung, 456
Cysteine, ascorbate, and dapsone, regulation by, of increased extracellular and intracellular generation of reactive oxidant by activated phagocytes from cigarette smokers, 1027
Cystic fibrosis. *See* Fibrosis
Dapsone, ascorbate, and cysteine, regulation by, of increased extracellular and intracellular generation of reactive oxidant by activated phagocytes from cigarette smokers, 1027
Darwinian dilemma? (editorial), 990
Dexamethasone
inhibits antigen-induced contractile activity and release of inflammatory mediators in isolated guinea pig lung tissue, 562
treatment and interaction of prenatal starvation on lung development in newborn guinea pigs, 991
Diabetes mellitus, insulin-dependent, pulmonary function in patients with, 223
Diaphragm
and genioglossus, correlation between responses of, to hypercapnia during sleep, 378
strength generation, effects of digoxin on, in patients with COPD during acute respiratory failure, 544
Diesel exhaust exposure and lung cancer, case-control study of, in railroad workers, 1242
Digoxin, effects of, on diaphragmatic strength generation in patients with COPD during acute respiratory failure, 544
Dogs
Basenji-Greyhound, hypotonic and isotonic aerosols increase bronchial reactivity in, 345
cigarette-smoking, hyporesponsiveness to aerosolized but not to infused methacholine in, 338
physiologic and histologic evaluation of, exposed chronically to SO_2, 831
with primary ciliary dyskinesia, microtubular protofilaments and subunits of outer dynein arm in cilia from, 137
tracheal epithelium in, probenecid affects chloride secretion in, 1329
Dyskinesia, primary ciliary, microtubular protofilaments and subunits of outer dynein arm in cilia from dogs with, 137
Dyspnea
psychophysics as an approach to study of (editorial), 1227
ratings, clinical and psychophysical measurements of respiratory sensation, comparison of, in obstructive airway disease, 1229
Edema
airway, effect of catalase on, in guinea pigs, 854
submucosal, effect of, on airway resistance, S54
EDITORIALS
A Darwinian dilemma? 990
Effect of critical care medicine credentialing on pulmonary fellowship training, 777
New initiative in pulmonary subspecialty training: quantity or quality? 780
Nocturnal ventilation; a new method, 523
Oxidants and antioxidants in the lung, 773
Perturbation of developmental events by nutritional means, 989
Physician noncompliance with tuberculosis preventive measures, 1
Pleurodesis—testing the waters, 775
Psychophysics, an approach to the study of respiratory sensation and the assessment of dyspnea, 1227
Pulmonary research: what topics? what costs? 521
Surgeon General's report on health consequences of involuntary smoking: a commentary, 1225
Vasodilators and pulmonary hypertension: where do we go from here? 287
Whose job is it anyway? 782
Eglin-c, effect of, on antibacterial mechanisms in experimental pneumonia, 676
Eicosanoids and lung inflammation (Symposium), 1176
Elastase
capacity, antineutrophil, comparison of alpha-1-antitrypsin levels and, of blood and lung in patient with alpha-1-antitrypsin phenotype null-null before and during alpha-1-antitrypsin augmentation therapy, 539
increased salivary, precedes gram-negative bacillary colonization in postoperative patients, 671

-induced extracellular matrix proteolysis, direct effects of neutrophil oxidants on, 1286
inhibitor eglin-c, effect of, on antibacterial mechanisms in experimental pneumonia, 676
metalloproteinase, human alveolar macrophages secrete inhibitor of, 1281
model, lessons from, on preventive therapy of emphysema (correspondence), 983
P. aeruginosa, fast solubilization of lung elastin by, 860
Elastin, lung, fast solubilization of, by *P. aeruginosa* elastase, 860
Electrical activity, inspiratory muscle, changes in, and upper airway resistance during periodic breathing induced by hypoxia during sleep, 899
Electrophysiology, cardiac, theophylline-induced alterations in, in patients with COPD, 322
Embolism, human pulmonary, cardiopulmonary effects of ketanserin infusion in, 114
Emergency room visits, impact of passive smoking on, of urban children with asthma, 567
Emphysema
intermittent positive pressure breathing in diagnosis of, 123
neutrophil recruitment and degranulation during induction of, in rat by NO_2, 1129
predictors of in South African gold miners, 1234
preventive therapy of, and lessons from elastase model (correspondence), 983
pulmonary, in nonsmoking patient with Salla disease (case report), 979
Endothelium
pulmonary, reduced oxygen tension induces, to release pulmonary smooth muscle cell mitogens, 622
rat lung capillary, binding of cationic probes to apical and basal surfaces of, 725
Endotoxin
contamination, role of, in effect of catalase on airway edema in guinea pigs, 854
and cotton dust exposure-response relationships in cotton textile workers, 194
-induced
lung injury, effect of human antiendotoxin monoclonal antibodies on, in rats, 665
respiratory failure, role of 5-hydroxytryptamine in, in pigs, 93
inhalation of, stimulates alveolar macrophage production of platelet-activating factor, 83
Enzyme(s)
angiotensin-converting, *in vitro* model for induction of, in sarcoidosis, 396
-linked immunosorbent assay, serodiagnosis of tuberculosis and other mycobacterial diseases by (state of art), 1137
lipid metabolizing, various roles of, in inflammatory process and possible implications for therapy, S22
major, of human mast cell secretory granules (Symposium), 1186
Eosinophil
activation in lung is related to lung damage in ARDS, 639
major basic protein, effect of, on mammalian ciliary activity, 848
Epidemiology of nontuberculous mycobacterial diseases in United States, 1007
Epithelial
cells
alveolar type II, insulin stimulated amino acid transport by, in primary culture 617
pulmonary type II, synthesis of collagenous proteins by, 1118
lining fluid recovered by bronchoalveolar lavage, limitations of using urea to quantify, 1276
permeability, respiratory, ozone exposure increases, in humans, 1124
Epithelium
canine tracheal, probenecid affects chloride secretion in, 1329
respiratory
effect of rhamnolipid hemolysin of *P. aeruginosa* on (correspondence), 512
immunoelectron microscopic study on histogenesis of epidermoid metaplasia in, 713
modulation of rabbit airway smooth muscle responsiveness by, 1099
Erythrocytes, sheep, mechanism of appearance of specific antibody-forming cells in lungs of inbred mice after immunization with, 87
Exercise
acute response to 3.0 ppm formaldehyde in healthy nonsmokers and asthmatics during, 1261
capacity, effects on, of bronchodilators in chronic air-flow limitation, 1069
continuous and intermittent, differing response of asthmatics to SO_2-exposure with, 350
and hypertonic airway challenge, comparison of refractory periods induced by, in bronchial asthma, 822
oxygen uptake kinetics and lactate concentration during, in humans, 1080
response of nasal airway to, 356
testing
in evaluation of breathlessness in asbestos workers, 812
in impairment evaluation, role of, 230
Farmer's lung, prognostic significance of bronchoalveolar lymphocytosis in, 692
Fetuses, rabbit, effect of maternal CO_2 breathing on lung development of, in rabbits, 130
Fibers, C, stimulation of, by ammonia vapor triggers mucociliary defense reflex, 1093
Fiberoptic bronchoscopies, value of, and significance of nondiagnostic bronchoscopic results in patients with AIDS, 418
Fibrin deposition, tissue, during acute lung injury in rabbits and its relationship to local expression of procoagulant and fibrinolytic activities, 930
Fibroblast(s)
collagen production rate in lung, modulation of effects of alveolar macrophages on, 52
density-fractionated human lung, phenotypic variability among, 57
production of growth factors by, from lungs of ventilated premature baboons and oxygen-exposed adult hamsters, 997
proliferation, human lung, recombinant gamma, alpha, and beta interferon regulation of, 62
Fibrosis, cystic, asymptomatic infants with, total respiratory system compliance in, 1075
idiopathic pulmonary, pretreatment bronchoalveolar lavage cellular constituents and their relationships with lung histopathology and clinical response to therapy, 696
pleural, histoplasmoma, and slowly enlarging pleural effusion in asymptomatic patient (case report), 502
Flow-volume curves, partial, evaluation of metered-dose aerosol delivery system using (Note), 741
Fluid balance and ARDS, 924
Formaldehyde, acute response to 3.0 ppm, in exercising healthy nonsmokers and asthmatics, 1261
N-Formyl-methionyl-leucyl-phenylalanine and substance P, differential effects of, on electrical and contractile properties of airway smooth muscle cells, 557
Gas exchange and pulmonary vascular reactivity in patients with liver cirrhosis, 1085
Gemstone workers in Hong Kong, survey of respiratory health of silica-exposed, 1249
Genes, immune- and non-immune-related, susceptibility to experimental interstitial lung disease is modified by, 448
Genioglossus
and diaphragm, correlation between response of, to hypercapnia during sleep, 378
respiratory activity of, and interaction between alcohol and menstrual cycle, 383
Gold miners, South African, predictors of emphysema in, 1234

Granulocytes, alveolar macrophages, and monocytes, interactions between, and implications for airway inflammation, S14
Granulomatosis
sarcoidlike lung, induced by aluminum dusts (case report), 493
Wegener's, anticytoplasmic antibody in (correspondence), 767
Growth factors, production of, by fibroblasts from lungs of ventilated premature baboons and oxygen-exposed adult hamsters, 997
Guinea pig
isolated lungs perfused via trachea, release of vasoactive substances from, S39
lung
immunohistochemical localization of histamine-stimulated increases in cyclic GMP in, 456
tissue, isolated, dexamethasone inhibits antigen-induced contractile activity and release of inflammatory mediators in, 562
newborn, interaction of prenatal starvation and dexamethasone treatment on lung development in, 991
Hamsters, oxygen-exposed adult, production of growth factors by fibroblasts from lungs of, 997
Heart-lung transplantation, human, physiologic aspects of denervated lung and post-transplant obliterative bronchiolitis (case report), 976
Hematocrit, reference equations derived from healthy nonsmoking population and effects of, on single-breath carbon monoxide diffusing capacity, 805
Histamine
and asthma (Symposium), 1165
calcium channel agonist BAY K8644 enhances responsivenesss of human airway muscle to, 185
H_1 receptor antagonist, terfenadine is potent and selective, in asthmatic airways, 181
prediction of airway responsiveness to (pulmonary perspective), 264
responses, increased *in vitro*, in human small airways smooth muscle from patients with COPD, 549
responsiveness, aerosol, effect of platelet-activating factor on, in awake sheep, 1267
-stimulated increases in cyclic GMP in guinea pig lung, immunohistochemical localization of, 456
Histiocytoma, postirradiation malignant fibrous, of trachea (case report), 761
Histogenesis of epidermoid metaplasia in respiratory epithelium, immunoelectron microscopic study on, 713
Histopathology, lung, and clinical response to therapy and their relationships with bronchoalveolar lavage cellular constituents in idiopathic pulmonary fibrosis, 696
Histoplasmoma, pleural fibrosis, and slowly enlarging pleural effusion in asymptomatic patient (case report), 502
History, volume, effects of, during spontaneous and acutely induced air-flow obstruction in asthma, 591
HLA-DR molecules synthesized by alveolar macrophages and blood monocytes, carbohydrate differences in, 1340
Hong Kong, survey of respiratory health of silica-exposed gemstone workers in, 1249
Hospital, Southern California, drug-resistant tuberculosis in, 1307
Hyaline membrane disease, sequence of inflammatory cell migration into lung during recovery from, in premature newborn monkeys, 937
Hydralazine
comparative study with, of hemodynamic effects of urapidil in patients with pulmonary hypertension, 288
effects of, on mouth occlusion pressure and ventilatory response to hypercapnia in patients with COPD and pulmonary hypertension, 118
5-Hydroxyeicosatetraenoic acid, mass spectrometric analysis of, in perfusate of isolated rat lung, S18
5-Hydroxytryptamine, role of, in endotoxin-induced respiratory failure in pigs, 93
Hypercapnia
correlation between genioglossal and diaphragmatic response to, during sleep, 378
effects of hydralazine on ventilatory response to, in patients with COPD and pulmonary hypertension, 118
hyperoxide-induced, in stable COPD, 907
Hyperoxia
adaptation to, biochemical effects and response to subsequent lethal hyperoxia in, 1002
degradation of collagen in lung tissue slices exposed to, 1334
hydercapnia induced by, in stable COPD, 907
Hyperreactivity, bronchial, role for platelet-activating factor in, S2
Hypertension
chronic hypoxic pulmonary, reduction of, in rat by inhibitor of collagen production, 300
primary pulmonary, Von Willebrand factor abnormalities in, 294
pulmonary
and vasodilators: where do we go from here? (editorial), 287
effects of hydralazine on mouth occlusion pressure and ventilatory response to hypercapnia in patients with, 118
hemodynamic effects of urapidil in patients with, 288
Hypohydration, effects of, on lung function in human, 597
Hyporesponsiveness to aerosolized but not to infused methacholine in cigarette-smoking dogs, 338
Hypoventilation, sleep-induced, reversal of, by nocturnal negative pressure ventilation in patients with restrictive ventilatory impairment, 1049
Hypoxemia, sleep-associated, biochemical correlate of, and nocturnal increase of urinary uric acid:creatine ratio, 534
Hypoxia, changes in, inspiratory muscle electrical activity and upper airway resistance during periodic breathing induced by, during sleep, 899
Iatroepidemics, a probe to examine systematic preventable errors in chest medicine (pulmonary perspective), 1152
Immunization, effects of, on pulmonary clearance of *P. aeruginosa* in neutropenic mice, 1294
Immunoelectron microscopy, study on histogenesis of epidermoid metaplasia in respiratory epithelium using, 713
Immunoglobulin-E
-mediated allergic reactions, is leukotriene B_4 important mediator in? S42
sensitization and occupational asthma in pharmaceutical company processing psyllium, 1033
Infants with cystic fibrosis, asymptomatic, total respiratory system compliance in, 1075
Inflammation
airway, implications for, in interactions between alveolar macrophages, monocytes, and granulocytes, S14
lung, and eicosanoids (Symposium), 1176
pulmonary, induction of, by components of pneumococcal cell surface, 869
cell migration, sequence of, into lung during recovery from hyaline membrane disease in premature newborn monkeys, 937
cells in acute and chronic asthma, S63
mediator(s)
contribution of, to immediate asthmatic reactions, S57
dexamethasone inhibits antigen-induced contractile activity and release of, in isolated guinea pig lung tissue, 562
and other mediators, effects of, on airway vascular beds, S67
production, regulation of, by mast cell products, S46
receptors, and asthma, S26
processes
mast cell involvement in various, S5
various roles of lipids and lipid metabolizing enzymes in, and possible implications for therapy, S22
Influenza-virus-specific T-lymphocytes, characterization and distribution of, in murine respiratory tract, 245
Inspiratory muscle
activity as trigger causing airways to open in obstructive sleep apnea, 372

performance, measurement of, with incremental threshold loading, 919
Insulin
-dependent diabetes mellitus, pulmonary function in patients with, 223
stimulates amino acid transport by alveolar type II epithelial cells in primary culture, 617
Intensive care unit patients, diagnosis of nosocomial pneumonia in intubated, 426
Interferon regulation, recombinant gamma, alpha, and beta, of lumen lung fibroblast proliferation, 62
Interleukin-1
activity, human alveolar macrophages suppress, via secretion of prostaglandin E_2, 72
is chemotactic factor for human T-lymphocytes, 66
production, increased and monocyte suppressor cell activity associated with tuberculosis (correspondence), 1214
Iron-binding capacity, transferrin-available, antioxidant activity of serum ceruloplasmin and, in smokers and nonsmokers, 783
Japanese patients with sarcoidosis, role of HLA-DR antigens in, 688
Ketanserin infusion, cardiopulmonary effects of, in human pulmonary embolism, 114
Konno-Mead analysis of rib cage-abdominal motion during successful trials of weaning from mechanical ventilation, 1320
Lactate concentration and oxygen uptake kinetics during exercise in humans, 1080
Lamb(s)
effects of intrauterine pneumonectomy in, 607
lung, preterm fetal, effects of distension of, on lung function with ventilation, 600
Lesions, myocardial contraction band, in patients with fatal asthma (case report), 498
Leukotriene
B_4, is it important mediator in human IgE-mediated allergic reactions? S42
E_4, bronchoconstrictor effects of, in normal and asthmatic subjects, 333
synthesis, zymosan-induced, inhibition by methylprednisolone of, in alveolar macrophages, 1020
Lipids and lipid metabolizing enzymes, various roles of, in inflammatory processes and possible implication for therapy, S22
Liposomes, selective enhancement of pentamidine uptake in lung by aerosolization and delivery in, 731
Lipoxygenase products of arachidonic acid, importance of, in allergen-induced late responses, S49
Liver cirrhosis, gas exchange and pulmonary vascular reactivity in patients with, 1085
Loading, threshold, measurement of inspiratory muscle performance with, 919
Lungs,
allergenic asthmatic, local allergen challenge and bronchoalveolar lavage of, 433
bronchial circulation, a small but vital attribute of (state of art), 463
cancer and diesel exhaust exposure, case-control study of, in railroad workers, 1242
capillary injury, proteolytic activity in sheep lung lymph as marker of, 643
connective tissue, damage and repair of, in rats exposed to toxic levels of oxygen, 441
damage in ARDS, eosinophil activation in lung is related to, 639
denervated, physiologic aspects of, in human heart-lung transplantation (case report), 976
development
of fetuses, effect of maternal CO_2 breathing on, in rabbits, 130
interaction of prenatal starvation and dexamethasone treatment on, in newborn guinea pigs, 991
disease
chronic, and sleep apnea, long-term cardiopulmonary sequelae in patients with, 525
interstitial
respiratory bronchiolitis causing, 880
susceptibility to, is modified by immune- and non-immune-related genes, 448
fibroblast
collagen production rate, modulation of effect of alveolar macrophages on, 52
density-fractionated human, phenotypic variability among, 57
proliferation, human, recombinant gamma, alpha, and beta interferon regulation of, 62
function
effects of
distention of preterm fetal lamb lung on, with ventilation, 600
hypohydration on, 597
severe impairment in, induced by high peak airway pressure during mechanical ventilation, 312
growth, obesity-induced hyperplastic, 613
guinea pig, immunohistochemical localization of histamine-stimulated increases in cyclic GMP in, 456
inflammation and eicosanoids (Symposium), 1176
injury
acute
inflammatory, pulmonary alveolar macrophage function during, 1300
tissue fibrin deposition during, in rabbits and its relationship to local expression of procoagulant and fibrinolytic activities, 930
endotoxin-induced, effect of human antiendotoxin monoclonal antibodies on, in rats, 665
oleic-acid-induced acute, prone position improves arterial oxygenation and reduces shunt in, 628
interactions of clindamycin with antibacterial defenses of, 1015
isolated
guinea pig, release of vasoactive substances from perfused, via trachea, S39
perfused rat, neutrophil-derived oxygen metabolites stimulate thromboxane release, pulmonary artery pressure increases, and weight gains in (Note), 957
rat, mass spectrometric analysis of 5-hydroxyeicosatetraenoic acid in perfusate of, S18
of mice, dose-dependence and kinetics of appearance of antibody-forming cells in, 93
natural killer cell function in, is compartmentalized, 941
oxidants and antioxidants in (editorial), 773
preterm fetal lamb, effects of distention of, on lung function with ventilation, 600
rat, capillary endothelium of, binding of cationic probes to apical and basal surfaces of, 725
selective enhancement of pentamidine uptake in, by aerosolization and delivery in liposomes, 731
sequence of inflammatory cell migration into, during recovery from hyaline membrane disease in premature newborn monkeys, 937
at term, morphometric study of remaining, after intrauterine pneumonectomy in lambs, 607
tissue
isolated guinea pig, dexamethasone inhibits antigen-induced contractile activity and release of inflammatory mediators in, 562
slices exposed to hyperoxia, degradation of collagen in, 1334
of ventilated premature baboons, production of growth factors by fibroblasts from, 997
Lymph
nodes, hilar, of mice, dose-dependence and kinetics of appearance of antibody-forming cells in, 93
sheep lung, proteolytic activity in, as marker of lung capillary injury, 643
Lymphocyte(s). *See also* T-lymphocytes
proliferation to mitogen and antigen, alveolar macrophages, blood monocytes, and density-fractionated alveolar macropages differ in their ability to promote, 682

mast cells, and neutrophils in bronchoalveolar lavage in extrinsic allergenic alveolitis, 35
Lymphocytosis, bronchoalveolar, prognostic significance of, in farmer's lung, 692
Macrophages. *See also* Alveolar macrophages
peripheral, from patients with blastomycosis, growth inhibition of *Blastomyces dermatitidis* in, 412
Marijuana
smokers
differential examination of bronchoalveolar lavage cells in tobacco cigarette and, 1271
habitual heavy, respiratory symptoms and lung function in, 209
Mast cell(s)
and asthma (Symposium), 1157
atypical lymphocytes, and neutrophils in bronchoalveolar lavage in extrinsic allergenic alveolitis, 35
-derived mediators, role of, in airway function, S35
heterogeneity of, in tissues of respiratory tract and other organ systems (Symposium), 1190
human
lung, and osmotic activation of basophils, comparison of, 1043
pathophysiology of (Symposium), 1196
involvement in various inflammatory processes, S5
products, regulation of inflammatory mediator production by, S46
and provoked asthma (Symposium), 1200
secretory granules, human, major enzymes of (Symposium), 1176
Menstrual cycle
interaction between alcohol and, and respiratory activity of genioglossus, 383
natural, airway responsiveness to methacholine during, and effect of oral contraceptives, 1039
Mesothelioma risk, asbestos-related, among railroad workers (correspondence), 983
Metabolite(s)
inhibitory, of arachidonic acid, involvement of, in modulation of rabbit airway smooth muscle responsiveness by respiratory epithelium, 1099
neutrophil-derived oxygen, stimulate thromboxane release, pulmonary artery pressure increases, and weight gains in isolated perfused rat lung (Note), 957
Metalloproteinase elastase, alveolar macrophages secrete inhibitor of, 1281
Metaplasia, epidermoid, immunoelectron microscopic study on histogenesis of, in respiratory epithelium, 713
Methacholine
aerosolized, airway response to, in cats, 190
airway responsiveness to, during natural menstrual cycle and effect of oral contraceptives, 1039
availability for bronchial challenge testing (correspondence), 512
hyporesponsiveness to aerosolized but not to infused, in cigarette-smoking dogs, 338
inhaled and intravenously administered, effects on airway responsiveness in dogs with SO_2-induced bronchitis, 840
Methylprednisolone, inhibition by, of zymosan-induced leukotriene synthesis in alveolar macrophages, 1020
Mice
mechanism of appearance of specific antibody-forming cells in lungs of inbred, after immunization with sheep erythrocytes, 87
neutropenic, pulmonary clearance of *P. aeruginosa* in, effects of systemic immunization on, 1294
Miners, South African gold, predictors of emphysema in, 1234
Mitogen(s)
alveolar macrophages, blood monocytes, and density-fractionated alveolar macrophages differ in their ability to promote lymphocyte proliferation to, 682
pulmonary smooth muscle cell, reduced oxygen tension induces pulmonary endothelium to release, 622
Monkeys, premature newborn, sequence of inflammatory cell migration into lung during recovery from hyaline membrane disease in, 937
Monocyte(s)
alveolar macrophages and granulocytes, interactions between, and implications for airway inflammation, S14
blood
alveolar macrophages, and density-fractionated alveolar macrophages differ in their ability to promote lymphocyte proliferation to mitogen and antigen, 682
carbohydrate differences in HLA-DR molecules synthesized by alveolar macrophages, and, 1340
influx, role of, in maintenance of normal rat alveolar macrophage cell population, 78
suppressor cell activity and increased interleukin-1 production associated with tuberculosis (correspondence), 1214
Mouth occlusion pressure, effects of hydralazine on, in patients with COPD and pulmonary hypertension, 118
Mucosa, bovine tracheal, affinities of pirenzepine for muscarinic cholinergic receptors in membranes isolated from, 719
Multiple organ injury syndrome, cellular interactions in (workshop report), 952
Muscarinic cholinergic receptors, affinities of pirenzepine for, in membranes isolated from bovine tracheal mucosa and smooth muscle, 719
Mycobacterial diseases
nontuberculous, epidemiology of, in United States, 1007
tuberculosis and other, serodiagnosis of, by enzyme-linked immunosorbent assay (state of art), 1137
Mycobacterium
avium-intracellulare infection, pulmonary, response to therapy of, correlates with results of *in vitro* susceptibility testing, 418
kansasii, rifampin-resistant, sulfonamide-containing regimens for disease caused by, 10
malmoense, pulmonary disease caused by (case report), 1375
Nasopharyngoscopy, serial changes of flow-volume curves and, during acute upper airway injury in burn patients, 360
National Heart, Lung and Blood Institute
Workshop summary
pulmonary complications of acquired immunodeficiency syndrome: update report of second workshop, 504
strategies for elucidating relationship between occupational exposures and chronic air-flow obstruction, 268
National Institutes of Health
Intermittent positive pressure breathing trial, 123
Natural killer cell
activity, pulmonary, is reduced in patients with bronchogenic carcinoma, 1353
function in human lung is compartmentalized, 941
Neutrophil(s)
chemotactic activity, alveolar-macrophage-derived, complement component C5 is required for release of, 659
derived oxygen metabolites stimulate thromboxane release, pulmonary artery pressure increases, and weight gains in isolated perfused rat lungs (Note), 957
mast cells, and atypical lymphocytes in bronchoalveolar lavage in extrinsic allergenic alveolitis, 35
oxidants, direct effects of, on elastase-induced extracellular matrix proteolysis, 1286
recruitment and degranulation during induction of emphysema in rat by NO_2, 1129
Nitrogen dioxide, neutrophil recruitment and degranulation during induction of emphysema in rat by, 1129
Nose mask
nocturnal positive pressure ventilation via (Note), 738
positive-pressure ventilation through, in treatment of respiratory failure during sleep in patients with neuromuscular disease, 148
Nutrition
perturbation of developmental events through (editorial), 989
supplemental, in ambulatory patients with COPD, 1062
Obesity-induced hyperplastic lung growth, 613

OBITUARY
Gardner Middlebrook, 985
Oleic-acid-induced acute lung injury, prone position improves arterial oxygenation and reduces shunt in, 628
Oral contraceptives, airway responsiveness to methacholine during natural menstrual cycle and effect of, 1039
Oxidants
and antioxidants in lung (editorial), 773
neutrophil, direct effects of, on elastase-induced extracellular matrix proteolysis, 1286
reactive, regulation by antioxidants of increased extracellular and intracellular generation of, by activated phagocytes from cigarette smokers, 1027
Oxygen
delivery, transtracheal, patient response to, 153
effects of administration of, on ventilation and blood gases in patients with COPD during acute respiratory failure (correspondence), 274
metabolites, neutrophil-derived, stimulate thromboxane release, pulmonary artery pressure increases, and weight gains in isolated perfused rat lung (Note), 957
intermediates, effects of, on cellular functions, S32
tension, reduced, induces pulmonary endothelium to release pulmonary smooth muscle cell mitogens, 622
toxic levels of, damage and repair of lung connective tissue in rats exposed to, 441
uptake kinetics and lactate concentration during exercise in humans, 1080
Oxygenation, arterial, prone position improves, and reduced shunt in oleic-acid-induced acute lung injury, 628
Ozone exposure increases respiratory epithelial permeability in humans, 1124
Paralysis, hemidiaphragmatic, assessment of (correspondence), 1214
Pentamidine uptake, selective enhancement of, in lung by aerosolization and delivery in liposomes, 731
Permeability, respiratory epithelial, ozone exposure increases, in humans, 1124
Phagocytes from cigarette smokers, activated, regulation by antioxidants of increased extracellular and intracellular generation of reactive oxidants by, 1027
Pharmaceutical company processing psyllium, occupational asthma and IgE sensitization in, 1033
Phenotypes, variability in, among density-fractionated human lung fibroblasts, 57
Physicians
noncompliance with tuberculosis preventive measures in (editorial), 1
tuberculosis in, and compliance with preventive measures, 3
Pigs, role of 5-hydroxytryptamine in endotoxin-induced respiratory failure in, 93
Pirenzepine, affinities of, for muscarinic cholinergic receptors in membranes isolated from bovine tracheal mucosa and smooth muscle, 719
Plasma antioxidants and protection against alpha-1-proteinase inhibitor inactivation (correspondence), 767
Platelet-activating factor
effect of, on aerosol histamine responsiveness in awake sheep, 1267
inhalation of endotoxin stimulates alveolar macrophage production of, 83
role for, in bronchial hyperreactivity, S2
Platelets, role of, in ARDS (state of art), 482
Pleural effusions
recurrent malignant, symptomatic treatment of, with intrapleurally administered *Corynebacterium parvum*, 885
slowly enlarging, histoplasmoma and pleural fibrosis in asymptomatic patient (case report), 502
Pleurodesis—testing the waters (editorial), 775
Pneumococcal cell surface, induction of pulmonary inflammation by components of, 869
Pneumocystis carinii pneumonia, accelerated solute clearance in, 864
Pneumonectomy, intrauterine, effects of, in lambs, 607
Pneumonia
experimental, effect of elastase inhibitor eglin-c on antibacterial mechanisms in, 676
nosocomial, diagnosis of, in intubated intensive care unit patients, 426
organizing and interstitial, comparison of bronchiolitis obliterans with, 705
Pneumocystis carinii, accelerated solute clearance in, 864
Pneumonitis
acute and latent, after subcutaneous injections of silicone in transsexual men, 236
bleomycin-induced, natural course of, 48
Positive end-expiratory pressure, effect of, on right and left ventricular function in patients with ARDS, 307
Postoperative patients, increased salivary elastase precedes gram-negative bacillary colonization in, 671
Potassium chloride, calcium channel agonist BAY K8644 enhances responsiveness of human airway muscle to, 185
Probenecid affects chloride secretion in canine tracheal epithelium, 1334
Prostaglandin E_2, human alveolar macrophages suppress interleukin-1 activity via secretion of, 72
Protein
collagenous, synthesis of, by pulmonary type II epithelial cells, 1118
low molecular weight surfactant, characterization and partial amino acid sequence, 1112
purified human eosinophil major basic, effect of, on mammalian ciliary activity, 848
surfactant, augmentation of rat alveolar macrophage migration by (Note), 1358
Proteolysis, elastase-induced extracellular matrix, direct effects of neutrophil oxidants on, 1286
Pseudomonas aeruginosa
effect of rhamnolipid hemolysin of, on respiratory epithelium (correspondence), 512
elastase, fast solubilization of lung elastin by, 860
pulmonary clearance of, in neutropenic mice, effects of systemic immunization of, 1294
Psychophysics, an approach to study of respiratory sensation and assessment of dyspnea (editorial), 1227
Psychophysical measurements and clinical dyspnea rating of respiratory sensation, comparison of, in obstructive airway disease, 1229
Psyllium, occupational asthma and IgE sensitization in pharmaceutical company processing, 1033
Pulmonary
complications of AIDS: update report of second NHLBI workshop (NHLBI workshop summary), 504
complications of intravesicular BCG immunotherapy (case report), 763
disease, chronic obstructive
airway occlusion pressure as indicator of successful weaning in patients with, 107
effects of
administration of O_2 on ventilation and blood gases in patients with, during acute respiratory failure (correspondence), 274
digoxin on diaphragmatic strength generation in patients with, during acute respiratory failure, 544
dynamic airway compression on breathing pattern and respiratory sensation in severe, 912
hydralazine on mouth occlusion pressure and ventilatory response to hypercapnia in patients with, 118
intermittent negative pressure ventilation on respiratory muscle function in patients with severe, 1056
hyperoxic-induced hypercapnia in, 907
increased *in vitro* histamine responses in small airways smooth muscle from patients with, 549

nutritional supplementation in ambulatory patients with, 1062
theophylline-induced alterations in cardiac electrophysiology in patients with, 322
disorders caused by *M. malmoense* (case report), 1375
fellowship training, effect of critical care medicine, credentialing on (editorial), 777
function
abnormalities, prediction of, after ARDS, 634
assessment of genetic and nongenetic influences on, in twins, 217
and passive smoking, effect of, in population-based sample of children and young adults, 800
in patients with insulin-dependent diabetes mellitus, 223
relationship of nonspecific bronchial responsiveness to occurrence of, 1286
research: what topics? what costs? (editorial), 521
subspecialty training, new initiatives in (editorial), 780
type II epithelial cells, synthesis of collagenous proteins by, 1118
vascular reactivity and gas exchange in patients with liver cirrhosis, 1085
Rabbit(s)
airway smooth muscle responsiveness, modulation of, by respiratory epithelium, 1099
bronchoalveolar fluid, complement activity in, 403
fetuses, effect of maternal CO_2 breathing on lung development of, 130
tissue fibrin deposition during acute lung injury in, and its relationship to local expression of procoagulant and fibrinolytic activities, 930
Railroad workers
asbesto-related mesothelioma risk among (correspondence), 983
case-control study of lung cancer and diesel exhaust exposure in, 1242
Rat(s)
alveolar macrophage
cell population, maintenance of, 78
migration, augmentation of, by surfactant protein (Note), 1358
effect of human antiendotoxin monoclonal antibodies on endotoxin-induced lung injury in, 665
exposed to toxic levels of oxygen, damage and repair of lung connective tissue in, 441
lung
capillary endothelium, binding of cationic probes to apical and basal surfaces of, 725
isolated
perfused, neutrophil-derived oxygen metabolites stimulate thromboxane release, pulmonary artery pressure increases, and weight gains in (Note), 957
mass spectrometric analysis of 5-hydroxyeicosatetraenoic acid in perfusate of, S18
neutrophil recruitment and degranulation during induction of emphysema in, by NO_2, 1129
reduction of chronic hypoxic pulmonary hypertension in, by inhibitor of collagen production, 300
Reflex, mucociliary defense, stimulation of C fibers by ammonia vapor triggers, 1093
Reflux, gastroesophageal, in patients with asthma and chronic bronchitis, 327
Respiratory
disease mortality, effects of occupation and smoking on (correspondence), 1214
distress syndrome, adult
activation of complement system in, 651
effect of PEEP on right and left ventricular function in patients with, 307
eosinophil activation in lung is related to lung damage in, 639
fluid balance and, 924
prediction of pulmonary function abnormalities after, 634
role of platelets in (state of art), 482
^{99m}Tc-fibrinogen scanning in, 100
failure, acute
effects of
administration of O_2 on ventilation and blood gases in patients with COPD during (correspondence), 274
digoxin on diaphragmatic strength generation in patients with COPD during, 544
chronic, reversal of, by nocturnal negative pressure ventilation in patients with restrictive ventilatory impairment, 1049
during sleep, treatment of, in patients with neuromuscular disease using positive-pressure ventilation through a nose mask, 148
endotoxin-induced, role of 5-hydroxytryptamine in, in pigs, 93
health of silica-exposed gemstone workers, survey of, in Hong Kong, 1249
mechanics, partitioning of, in young adults, effects of duration of anesthesia on, 165
muscle function, effects of intermittent negative pressure ventilation on, in patients with severe COPD, 1056
sensation
comparison of clinical dyspnea rating and psychophysical measurements of, in obstructive airway disease, 1229
effect of dynamic airway compression on breathing pattern and, in severe COPD, 912
psychophysics as an approach to study of (editorial), 1227
symptom(s)
questionnaire, standardized, prediction of airway reactivity from responses to, 817
relationship of nonspecific bronchial responsiveness to occurrence of, 1255
system compliance, total, in asymptomatic infants with cystic fibrosis, 1075
tract
heterogeneity of mast cells in tissue of (Symposium), 1190
murine, characterization and distribution of influenza-virus-specific T-lymphocytes in, 245
Rhamnolipid hemolysin of *P. aeruginosa*, effect of, on respiratory epithelium (correspondence), 512
Rhinovirus colds, experimental, intranasally administered atropine methonitrate treatment of, 241
Rib cage and abdominal motion, Konno-Mead analysis of, during successful and unsuccessful trials of weaning from mechanical ventilation, 1320
Rifampin-resistant *M. kansasii* sulfonamide-containing regimens for disease caused by, 10
Salla disease, pulmonary emphysema in nonsmoking patient with (case report), 979
Sarcoidosis
current concepts of pathogenesis of (state of art), 747
in vitro model for induction of angiotensin-converting enzyme in, 396
Japanese patients with, role of HLA-DR antigens in, 688
Scanning, ^{99m}Tc-fibrinogen, in adult respiratory distress syndrome, 100
Seldane is potent and selective histamine H_1 receptor antagonist in asthmatic airways, 181
Sheep
awake, effect of platelet-activating factor on aerosol histamine responsiveness in, 1267
erythrocytes, mechanism of appearance of specific antibody-forming cells in lungs of inbred mice after immunization with, 87
lung lymph, proteolytic activity in, as marker of lung capillary injury, 643
Shunt, prone position reduces, in oleic-acid-induced acute lung injury, 628
Sialic acid mediates initial binding of positively charged inorganic particles to alveolar macrophage membranes, 1345
Silica-exposed gemstone workers, survey of respiratory health of, in Hong Kong, 1249
Silicone, acute and latent pneumonitis after subcutaneous injections of, in transsexual men, 236

Sleep
apnea. *See* Apnea
-associated hypoxemia, biochemical correlate of, and nocturnal increase of urinary uric acid:creatinine ratio, 534
changes in inspiratory muscle electrical activity and upper airway resistance during periodic breathing induced by hypoxia during, 899
correlation between genioglossal and diaphragmatic response to hypercapnia during, 378
-induced hypoventilation and chronic respiratory failure, reversal of, by nocturnal negative pressure ventilation in patients with restrictive ventilatory impairment, 1049
periodic breathing and respiratory stimulants at high altitude, almitrine versus acetazolamide, 896
respiratory failure during, in patients with neuromuscular disease treated with positive-pressure ventilation through a nose mask, 148
upper airway obstruction during, in normal subjects after selective topical oropharyngeal anesthesia, 1316
Smokers
cigarette, regulation by antioxidants of increased extracellular and intracellular generation of reactive oxidants by activated phagocytes from, 1027
marijuana
and cigarette, differential examination of bronchoalveolar lavage cells in, 1271
and tobacco, respiratory symptoms and lung function in, 209
middle-aged, sensitive tests are poor predictors of decline in FEV_1 in, 585
and nonsmokers, antioxidant activity of serum ceruloplasmin and transferrin available iron-binding capacity, 783
Smoking
dogs, cigarette-, hyporesponsiveness to aerosolized but not to infused methacholine in, 338
involuntary, Surgeon General's report on health consequences of (editorial), 1225
and occupation, effects of, on respiratory disease mortality (correspondence), 1214
passive
effect of, on pulmonary function and nonspecific bronchial responsiveness in population-based sample of children and young adults, 800
impact of, on emergency room visits of urban children with asthma, 567
and smoking cessation, effects of, on longitudinal changes in FEV_1 in adults, 794
Smooth muscle
airway (state of art), 960
bovine, affinities of pirenzepine for muscarinic cholinergic receptors in membranes isolated from, 719
cell mitogens, pulmonary, reduced oxygen tension induces pulmonary endothelium to release, 622
pulmonary and vascular, effects of complement fragments on, 000
responsiveness, rabbit airway modulation of, by respiratory epithelium, 1099
Snorers with predominantly central sleep apnea and those without sleep apnea, difference in pharyngeal properties between, 387
South African gold miners, predictors of emphysema in, 1234
Spectrometry, mass, analysis of 5-hydroxyeicosatetraenoic acid by, in perfusate of isolated rat lung, S18
Spirometry
once-daily sustained-release theophylline reduces diurnal variation in, in adult asthmatics, 316
screening, horse-racing effect and predicting decline in FEV_1 from, 788
Starvation, prenatal, interaction of, and dexamethasone treatment on lung development in newborn guinea pigs, 991
STATE OF ART
Airway smooth muscle, 960
The bronchial circulation: small, but a vital attribute of the lung, 463
Bronchoalveolar lavage, 250
Current concepts of the pathogenesis of sarcoidosis, 747
High frequency ventilation, 1363
The role of platelets in adult respiratory distress syndrome: culprits or bystanders? 482
Serodiagnosis of tuberculosis and other mycobacterial diseases by enzyme-linked immunosorbent assay, 1137
Sulfonamide-containing regimens for disease caused by rifampin-resistant *M. kansasii*, 10
Sulfur dioxide
chronic exposure to, physiologic and histologic evaluation of, in dogs, 831
exposure, differing response of asthmatics to, with continuous and intermittent exercise, 350
-induced
bronchitis in dogs, 840
bronchoconstriction in asthmatic subjects by cromolyn is dose dependent (correspondence), 512
Surfactant protein
augmentation of rat alveolar macrophage migration by (Note), 1358
low molecular weight, characterization and partial amino acid sequence of, 1112
Susceptibility testing, *in vitro*, response to therapy of pulmonary *M. avium-intracellulare* infection correlates with results of, 418
Symposium on mast cells and asthma, 1157
Syndrome
acquired immunodeficiency
pulmonary complications of, update on second workshop (NHLBI workshop summary), 504
value of repeat fiberoptic bronchoscopies and significance of nondiagnostic bronchoscopic results in patients with, 418
adult respiratory distress
activation of complement system in, 651
effect of PEEP on right and left ventricular function in patients with, 307
eosinophil activation in lung is related to lung damage in, 639
fluid balance and, 924
prediction of pulmonary function abnormalities after, 634
role of platelets in (state of art), 482
^{99m}Tc-fibrinogen scanning in, 100
multiple organ injury, cellular interactions in (workshop report), 952
Tamoxifen, evaluation of, as therapy to augment alpha-1-antitrypsin concentration in Z homozygous alpha-1-antitrypsin-deficient subjects, 401
Terfenadine is potent and selective histamine H_1 receptor antagonist in asthmatic airways, 181
Tests, sensitive, are poor predictors of decline in FEV_1 in middle-aged smokers, 585
Tetraplegia, subjects with, mechanism of postural dependence of vital capacity in, 367
Theophylline
-induced alteration in cardiac electrophysiology in patients with COPD, 322
once-daily sustained-release, reduces diurnal variation in spirometry and symptomatology in adult asthmatics, 316
Thoracentesis and ultrasonography (correspondence), 983
Thromboxane release, neutrophil-derived oxygen metabolites stimulate, in isolated perfused rat lung, 957
T-lymphocytes
human, interleukin-1 is chemotactic factor for, 66
influenza-virus-specific, characterization and distribution of, in murine respiratory tract, 245
Tomography, computerized, airway area by, 392
Trachea
postirradiation malignant fibrous histiocytoma of (case report), 761

release of vasoactive substances from guinea pig isolated lungs perfused via, S39
Tracheobronchial microcirculation, leakage of macromolecules from, S71
Transferrin-available iron-binding capacity, antioxidant activity of serum ceruloplasmin and, in smokers and nonsmokers, 783
Transsexual men, acute and latent pneumonitis after subcutaneous injections of silicone in, 236
Tuberculosis
chemoprophylaxis in compromised host (correspondence), 1379
drug-resistant, in Southern California hospital, 1307
HTLV-III virus seropositivity and related disease among 71 consecutive patients with diagnosed, 875
increased interleukin-1 production and monocyte suppressor cell activity associated with (correspondence), 1214
inner-city survey, evaluation of diagnostic methods of, 1311
and other mycobacterial diseases, serodiagnosis of, by enzyme-linked immunosorbent assay (state of art), 1137
in physicians and compliance with preventive measures, 3
preventive measures, physician noncompliance with, (editorial), 1
pulmonary, short-course chemotherapy of (correspondence), 1214
treatment in Cambodian refugee camp, follow-up on (correspondence), 512
Twins, assessment of genetic and nongenetic influences on pulmonary function in, 217
Ultrasonography and thoracentesis (correspondence), 983
United States, epidemiology of nontuberculous mycobacterial diseases in, 1007
Urapidil, hemodynamic effects of, in patients with pulmonary hypertension, 288
Urea, limitation of using, to quantify epithelial lining fluid recovered by bronchoalveolar lavage, 1276
Urinary uric acid:creatinine ratio, nocturnal increase of, and sleep-associated hypoxemia, 534
Vagosympathectomy, effects of partial or complete, on airway responses to aerosolized methacholine in cats, 190
Vasodilators and pulmonary hypertension: where do we go from here? (editorial), 287
Ventilation
effects of
administration of O_2 on, in patients with COPD during acute respiratory failure (correspondence), 274
distention of preterm fetal lamb lung on lung function with, 600
high frequency (state of art), 1363
intermittent negative pressure, effects of, on respiratory muscle function in patients with severe COPD, 1056
mechanical
Konno-Mead analysis of rib cage and abdominal motion during successful and unsuccessful trials of weaning from, 1320
severe impairment in lung function induced by high peak airway pressure during, 312
nocturnal
new method of (editorial), 523
negative pressure, reversal of sleep-induced hypoventilation and chronic respiratory failure by, in patients with restrictive ventilatory impairment, 1049
positive pressure, via nasal mask (Note), 738
positive-pressure, in treatment of respiratory failure during sleep in patients with neuromuscular disease, 148
Ventilatory
response
to CO_2, time course of change in, with long-term CPAP therapy for obstructive sleep apnea, 144
to hypercapnia, effects of hydralazine on, in patients with COPD and pulmonary hypertension, 118
Ventricular function, right and left, effect of PEEP on, in patients with ARDS, 307
Vesicles within vesicles, what role do they play in alveolar type II cells? (pulmonary perspective), 744
Virus-III, human T-cell lymphotropic (HTLV-III), seropositivity and related disease among 71 consecutive patients in whom tuberculosis was diagnosed, 875
Von Willebrand factor abnormalities in primary pulmonary hypertension, 294
Wegener's granulomatosis, anticytoplasmic antibody in (correspondence), 767
Whose job is it anyway? (editorial), 782
Workers
asbestos, breathlessness in, evaluated by exercise testing, 812
cotton textile, cotton dust and endotoxin-exposure-response relationships in, 194
precious metal refinery, chronic beryllium disease in, 201
railroad
asbestos-related mesothelioma risk among (correspondence), 983
case-control study of lung cancer and diesel exhaust exposure in, 1242
silica-exposed gemstone, survey of respiratory health of, in Hong Kong, 1249
Zymosan-induced leukotriene synthesis, inhibition by methylprednisolone of, in alveolar macrophages, 1020